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RLT6415G TECHNICAL DATA

High Power Visible Wavelength Laserdiode

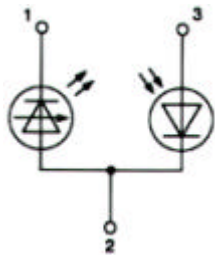
Structure: **AlGaInP**, index guided

Lasing wavelength: **640 nm**

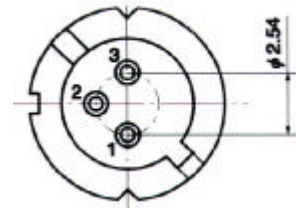
Max. optical power: **15 mW**

Package: **9mm**

PIN CONNECTION:



- 1) Laser diode cathode
- 2) Laser diode anode and photodiode cathode
- 3) Photodiode anode



Maximum Ratings (Tc=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power	P_o	15	mW
LD Reverse Voltage	$V_{R(LD)}$	2	V
PD Reverse Voltage	$V_{R(PD)}$	30	V
Operation Case Temperature	T_C	-10 .. +40	°C
Storage Temperature	T_{STG}	-40 .. +85	°C

Optical-Electrical Characteristics (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Optical Output Power	P_o	kink free		15		mW
Threshold Current	I_{th}		45	60	80	mA
Operation Current	I_{op}	$P_o = 15mW$		65	85	mA
Operating Voltage	V_{op}	$P_o = 15mW$		2.5	2.6	V
Lasing Wavelength	λ_p	$P_o = 15mW$		640	645	nm
Beam Divergence	q_1	$P_o = 15mW$	6	9	16	°
Beam Divergence	q_2	$P_o = 15mW$	25	31	37	°
Monitor Current	I_m	$P_o = 15mW, V_f = 5V$	10	100		µA
Astigmatism	A_s	$P_o = 15mW$		11		µm